

.. negative current sensor to generate a negative current sense signal in response to the multi-function terminal if a voltage at the multi-function terminal is less than a first voltage, the negative current sensor isolated from the multi-function terminal if the voltage at the multi-function terminal is greater than the first voltage/.

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115. (New) The power supply controller of claim 114 wherein the multi-function circuitry comprises a positive current sensor coupled to the multi-function terminal, the positive current sensor to generate a positive current sense signal in response to the multi-function terminal if the voltage at the multi-function terminal is greater than a second voltage, the positive current sensor isolated from the multi-function terminal if the voltage at the multi-function terminal is less than the second voltage, wherein the second voltage is greater than the first voltage, the switching waveform generated in response to the negative current sense signal and the positive current sense signal.

116. (New) The power supply controller of claim 113 wherein the multi-function circuitry comprises on/off circuitry coupled to the control circuit and responsive to the multi-function terminal, the on/off circuitry to control the control circuit to start and to stop the switching waveform in response to the multi-function terminal.

117. (New) The power supply controller of claim 113 wherein the multi-function circuitry comprises external current limit adjuster circuitry coupled to the control circuit and responsive to the multi-function terminal, the external current limit adjuster circuitry to control the control circuit to adjust a current limit of the power switch in response to the multi-function terminal.